Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claims:

Claims 1-8 (Withdrawn)

9. (Original) An access station for wireless communications, the access station comprising:

a wireless input/output (I/O) unit that is configured to establish a plurality of access points; and

signal transmission/reception coordination logic that is capable of ascertaining that an access point of the plurality of access points is receiving a signal and that is adapted to restrain at least one other access point of the plurality of access points from transmitting another signal responsive to the ascertaining that the access point is receiving the signal.

10. (Original) The access station as recited in claim 9, wherein the plurality of access points established by the wireless I/O unit are co-located.

11. (Original) The access station as recited in claim 9, wherein the wireless I/O unit operates in accordance with at least one IEEE 802.11 standard.

12. (Currently Amended) The access station as recited in claim 9, wherein the signal received by the access point comprises at least one ~~up linked~~ uplinked packet.

13. (Original) The access station as recited in claim 9, wherein the signal received by the access point comprises at least a portion of an uplinked packet.

14. (Currently Amended) The access station as recited in claim 13, wherein the at least a portion of the uplinked packet comprises at least part of a preamble of the ~~up linked~~ uplinked packet.

15. (Currently Amended) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic ~~is further adapted to restrain~~ also restrains at least two other access points of the plurality of access points from transmitting signals responsive to the ascertaining that the access point of the plurality of access points is receiving the signal.

16. (Currently Amended) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic ~~is further adapted to restrain~~ also restrains the at least one other access point of the plurality of access points from transmitting a downlink signal responsive to the ascertaining that the access point of the plurality of access points is receiving the signal.

17. (Currently Amended) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic ~~is further adapted to restrain~~ also restrains the at least one other access point of the plurality of access points from transmitting the other signal on a first channel responsive to the ascertaining that the access point of the plurality of access points is receiving the signal on a second different channel.

18. (Currently Amended) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic ~~is further capable of monitoring~~ also monitors the plurality of access points.

19. (Currently Amended) The access station as recited in claim 18, wherein the signal transmission/reception coordination logic ~~is capable of monitoring~~ monitors the plurality of access points to detect received signals.

20. (Currently Amended) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic ~~is further adapted to restrain~~ also restrains the at least one other access point of the plurality of access points while the access point is receiving the signal.

21. (Original) The access station as recited in claim 9, wherein each access point of the plurality of access points corresponds to a communication beam of a plurality of communication beams that emanate from the access station.

22. (Original) The access station as recited in claim 9, wherein each access point of the plurality of access points is associated with a medium access controller/baseband unit pair.

23. (Original) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic comprises medium access controller coordination logic.

24. (Original) The access station as recited in claim 23, wherein the medium access controller coordination logic is physically distributed to link two or more access stations.

25. (Original) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic operates at a baseband level.

26. (Original) The access station as recited in claim 9, wherein the signal transmission/reception coordination logic operates at a radio frequency (RF) level.

Claims 27-34 (Withdrawn)

35. (Currently Amended) ~~An~~ The access station as recited in claim 9, wherein said transmission/reception coordination logic comprises an apparatus comprising:

a plurality of inputs adapted to accept a plurality of receive indicators;

logic capable of combining the plurality of receive indicators to produce a plurality of constructive receive indicators; and

a plurality of outputs adapted to provide the plurality of constructive receive indicators.

36. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the apparatus comprises a multi-media access controller (MAC) controller (MMC).

37. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein both the plurality of inputs and the plurality of outputs number three, six, or thirteen.

38. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the logic comprises at least one "OR" gate.

39. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the logic comprises at least one of hardware, software, and firmware.

40. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the logic is adapted to segment the plurality of receive indicators using a channel mapping prior to producing the plurality of constructive receive indicators, the plurality of constructive receive indicators thereby being segmented by the channel mapping.

41. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the logic includes at least one timing function that activates when a receive indicator of the plurality of receive indicators affirmatively indicates that a signal is being received.

42. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, further comprising:

another plurality of inputs adapted to accept receive-indicator enable information that stipulates which receive indicators of the plurality of receive indicators are to be combined by the logic to produce the plurality of constructive receive indicators.

43. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the plurality of inputs are further adapted to accept the plurality of receive indicators from a plurality of baseband units.

44. (Currently Amended) The ~~apparatus~~ access station as recited in claim 35, wherein the plurality of outputs are further adapted to provide the plurality of constructive receive indicators to a plurality of medium access controllers.

Claims 45-102 (Withdrawn)

103. (Currently Amended) An ~~apparatus~~ access station as recited in claim 9 ~~comprising:~~ wherein said signal transmission/reception coordination logic ~~that~~ accepts as inputs receive information for a plurality of access points and produces as outputs combined receive information, the signal transmission/reception coordination logic ~~adapted to combine~~ combining the receive information according to at least one coordination function and responsive to one or more selectivity factors.

104. (Currently Amended) The ~~apparatus~~ access station as recited in claim 103, wherein the one or more selectivity factors include channel selectivity.

105. (Currently Amended) The ~~apparatus~~ access station as recited in claim 103, wherein the one or more selectivity factors include overlapping subnet selectivity.

106. (Currently Amended) The ~~apparatus~~ access station as recited in claim 103, wherein the one or more selectivity factors include packet-content-based selectivity.

107. (Currently Amended) An access station for wireless communications ~~In~~ in a wireless system, the access station comprising:

a wireless input/output (I/O) unit that is configured to establish a plurality of access points; and

signal transmission/reception coordination logic that is capable of ascertaining that a first access point of the plurality of access points is receiving a first signal on a first channel and that ~~is adapted to restrain~~ restrains a second access point of the plurality of access points from transmitting a second signal on a second channel based on the ascertaining that the first access point is receiving the first signal with an ongoing transmission on a third channel to prevent distortion to other signals being wirelessly communicated in the wireless system.

108. (Original) The access station as recited in claim 107, wherein the prevented distortion comprises inter-modulation distortion.

109. (Currently Amended) An access station for wireless communications ~~In~~ in a wireless system, the access station comprising:

a wireless input/output (I/O) unit that is configured to establish at least one access point; and

signal transmission/reception coordination logic that ~~is capable of restraining~~ restrains transmission from the at least one access point when another access point is expecting a short-term response to a frame that was transmitted by ~~the other~~ said another access point.

110. (Original) The access station as recited in claim 109, wherein the short-term response to the frame comprises an immediate response to the frame.

111. (Original) The access station as recited in claim 109, wherein the other access point is also established by the wireless I/O unit of the access station.

112. (Original) The access station as recited in claim 109, wherein the other access point is established by a different access station.

113. (Original) The access station as recited in claim 109, wherein the at least one access point and the other access point are operating on a same channel.

114. (Original) The access station as recited in claim 109, wherein the at least one access point and the other access point are operating on different channels.

115. (Original) The access station as recited in claim 114, wherein the different channels are adjacent.